

IN THE CLAIMS:

Please amend claims 1, 6-7, 12-13, and please add new claim 22 as set forth below.

1. (Currently Amended) A network, comprising:

a plurality of base stations communicating with a radio network controller by an asynchronous transfer mode based data connection via an I_{UB} interface, at least one of the plurality of base stations comprising a plurality of radio sectors having physically distributed asynchronous transfer mode adaptation layer 2 based termination points, each termination point having an asynchronous transfer mode adaptation layer 2 over asynchronous transfer mode structure where different call ID's are mapped into an asynchronous transfer mode adaptation layer 2 cell stream of a single asynchronous transfer mode virtual connection under control of a control unit timer having a determined delay time; and

an asynchronous transfer mode switching unit that receives all asynchronous transfer mode adaptation layer 2 cell streams being sent parallel to each other from said termination points,

wherein said asynchronous transfer mode switching unit comprises a multiplexer configured to multiplex all of said received asynchronous transfer mode adaptation layer 2 cell streams into a single asynchronous transfer mode virtual connection to be processed by an asynchronous transfer mode switch, and wherein a control unit timer used in said

multiplexer has a larger value than a control unit timer of said asynchronous transfer mode adaptation layer 2 cell streams before said multiplexer.

2. (Cancelled)

3. (Previously Presented) The network of claim 1, wherein channels respectively corresponding to said termination points have different bandwidths.

4. (Previously Presented) The network of claim 1, wherein the multiplexer has a switchable bypass line.

5. (Previously Presented) The network of claim 4, wherein the multiplexer is a plug-in type unit.

6. (Currently Amended) A multiplexer for a network with system, comprising:
a plurality of base stations communicating with a radio network controller by an asynchronous transfer mode based data connection via an I_{UB} interface, wherein at least one of the plurality of base stations comprises a plurality of radio sectors having physically distributed asynchronous transfer mode adaptation layer 2 based termination points, and wherein each of said termination points has an asynchronous transfer mode adaptation layer 2 over asynchronous transfer mode structure where different call ID's are mapped into an

asynchronous transfer mode adaptation layer 2 cell stream of a single asynchronous transfer mode virtual connection under the control of a control unit timer having a determined delay time; and

wherein said multiplexer is a multiplexer configured to receive all asynchronous transfer mode adaptation layer 2 cell streams being sent parallel to each other from said termination points, and

wherein said multiplexer is configured to multiplex all of said received asynchronous transfer mode adaptation layer 2 cell streams into a single asynchronous transfer mode virtual connection to be processed by an asynchronous transfer mode switch, and wherein a control unit timer used in said multiplexer has a larger value than a control unit timer of said asynchronous transfer mode adaptation layer 2 cell streams before said multiplexer.

7. (Currently Amended) A method for data processing in a network with , comprising:

~~using an asynchronous transfer mode based data connection via an I_{UB} interface by a~~ plurality of base stations ~~communicating to communicate~~ with a radio network controller by an asynchronous transfer mode based data connection via an I_{UB} interface, wherein at least one of the plurality of base stations comprises a plurality of radio sectors having physically distributed asynchronous transfer mode adaptation layer 2 based termination points, and wherein each of said termination points has an asynchronous transfer mode adaptation layer

2 over asynchronous transfer mode structure where different call ID's are mapped into an asynchronous transfer mode adaptation layer 2 cell stream of a single asynchronous transfer mode virtual connection under the control of a control unit timer having a determined delay time; said method comprising:

receiving all asynchronous transfer mode adaptation layer 2 cell streams being sent parallel to each other from said termination points; and

multiplexing all of said received asynchronous transfer mode adaptation layer 2 cell streams into a single asynchronous transfer mode virtual connection to be processed by an asynchronous transfer mode switch, ~~and~~—wherein a control unit timer used in said multiplexing has a larger value than a control unit timer of said asynchronous transfer mode adaptation layer 2 cell streams before said multiplexing.

8-9. (Cancelled)

10. (Previously Presented) The network of claim 3, wherein the multiplexer has a switchable bypass line.

11. (Cancelled)

12. (Currently Amended) The multiplexer system—of claim 6, wherein the multiplexer has a switchable bypass line.

13. (Currently Amended) The multiplexer system—of claim 6, wherein the multiplexer is a plug-in type unit.

14-15. (Cancelled)

16. (Previously Presented) The method of claim 7, wherein the multiplexing is performed in a multiplexer.

17. (Previously Presented) The method of claim 16, wherein the multiplexer has a switchable bypass line.

18. (Previously Presented) The method of claim 16, wherein the multiplexer is a plug-in type unit.

19-21. (Cancelled)

22. (New) A multiplexer for a network with a plurality of base stations communicating with a radio network controller by an asynchronous transfer mode based data connection via an I_{UB} interface, wherein at least one of the plurality of base stations comprises a plurality of radio sectors having physically distributed asynchronous transfer

mode adaptation layer 2 based termination points, and wherein each of said termination points has an asynchronous transfer mode adaptation layer 2 over asynchronous transfer mode structure where different call ID's are mapped into an asynchronous transfer mode adaptation layer 2 cell stream of a single asynchronous transfer mode virtual connection under the control of a control unit timer having a determined delay time; said multiplexer comprising:

means for receiving all asynchronous transfer mode adaptation layer 2 cell streams being sent parallel to each other from said termination points, and

means for multiplexing all of said received asynchronous transfer mode adaptation layer 2 cell streams into a single asynchronous transfer mode virtual connection to be processed by an asynchronous transfer mode switch, wherein a control unit timer used in said multiplexer has a larger value than a control unit timer of said asynchronous transfer mode adaptation layer 2 cell streams before said multiplexer.